

RYOTA MAEDA

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🐙 github.com/elerac

Research Interests

- Computer Vision
- Polarimetric Imaging
- Computer Graphics
- Light Transport Acquisition
- Computational Imaging
- 3D Reconstruction

Education

University of Hyogo

Ph.D. of Engineering

Apr. 2022 –

University of Hyogo

Master of Engineering

Apr. 2020 – Mar. 2022

University of Hyogo

Bachelor of Engineering

Apr. 2016 – Mar. 2020

Publications

Polarimetric Light Transport Analysis for Specular Inter-reflection

Ryota Maeda, Shinsaku Hiura

arXiv (under review)

Dec. 2023

Refinement of Hair Geometry by Strand Integration

Ryota Maeda, Kenshi Takayama, Takafumi Taketomi

Computer Graphics Forum (Proc. of Pacific Graphics 2023)

Oct. 2023

EpiScope: Optical Separation of Reflected Components by Rotation of Polygonal Mirror

Ryota Maeda, Shinsaku Hiura

SIGGRAPH Asia 2021 Technical Communications

Dec. 2021

Research Experience

Optical Media Interface Lab, NAIST

Research Intern

Mentors: Hiroyuki Kubo and Yasuhiro Mukaigawa

Aug. 2018

CyberAgent AI Lab

Research Intern

Mentors: Kenshi Takayama and Takafumi Taketomi

Aug. 2022 – Sep. 2022

Software on GitHub

Polanalyser | ☆126 stars

Polarization image analysis tool. Demosaicing, Stokes vector, Mueller matrix.

structuredlight | ☆118 stars

Generate and Decode structured light. Binary, Gray, XOR, Ramp, Phase-Shifting, Stripe.

EasyPySpin | ☆93 stars

cv2.VideoCapture like wrapper for FLIR Spinnaker SDK.

Skills

Programming: Python, C/C++, NumPy, OpenCV, PyTorch

Embedded System: Arduino, Mbed

Design and CAD: Photoshop, Lightroom, Illustrator, Fusion 360

Language: Japanese, English

Last updated: April 28, 2024